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#### INFORMATION DISCLOSUR STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

Complete if Known				
Application Number	10/766,131			
Filing Date	01/28/2004			
First Named Inventor	Richard Perego			
Art Unit	2189			
Examiner Name	Kevin Verbrugge			
Attorney Docket Number	RAMB-01049US2			

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS							
Examiner Cite Initials No.		Document Number	Issue or	Name of Patentee or	Pages, Columns, Lines, Where		
	Number-Kind Code (il known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear			
W		6,477,614	11-05-2002	Leddige et al.			
7		6,513,091	01-28-2003	Blackmon et al.			
		6,557,069	04-29-2003	Drehmel et al.			
		6,633,947	10-14-2003	Holman et al.			
IW		6,889,284	05-03-2005	Nizeretal. Nizar et	al.		

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Examiner Initials	Cite No.	Foreign Patent Document  Country Code Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation	
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	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation				
W		Request for Declaration of Interference, filed on April 13, 2006 in U.S. Patent App. No. 11/203,652 to Drehmel et al., including exhibits A through K.					
'W		Jerry D. Gibson, Editor-in-Chief, "The Mobile Communications Handbook," copyright 1996 CRC Press, Inc., p. 24					
W		G. Doettling et al., "S/390 Parallel Enterprise Server Generation 3: A Balanced System and Cache Structure," IBM J. Res. Develop., Vol. 41 (No. 4/5), July/September 1997, pp. 405-428.					

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Examiner Signature	New Verler	Date Considered	///	6-9/06

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IDS Form PTO/SB/08: Substitute for form 1449A/PTO  INFORMATION DISCLOSURE		C	omplete if Known				
					Application Number	10/766,131	
INF	ORMATION D	DISCLOS	URF		Filing Date	01/28/2004	
	ATEMENT BY				First Named Inventor	Richard Perego	
317	AIEMENT DI	APPLIC	MIA I		Art Unit	2189	
(Use as many sheets as necessary)					Examiner Name	Kevin Verbrugge	
Shoot	2	of		4	Attorney Docket Number	DAMP-01040US2	

U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS							
Examiner	Cite	Document Number	Issue or	Name of Patentee or	Pages, Columns, Lines, Where		
Initials No.	No.	Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
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	FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Translation		
		Country Code Number Kind Code (if known)		Document	or Relevant Figures Appear			
W		European Search Report in EP 05001769						
W		EP 0 198 429	10-22-1986	NEC Corporation				
W		International Search Report in PCT/US05/17066, mailed November 2, 2005						

	NON PATENT LITERATURE DOCUMENTS						
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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3 of 4

Complete if Known				
Application Number	10/766,131			
Filing Date	01/28/2004			
First Named Inventor	Richard Perego			
Art Unit	2189			
Examiner Name	Kevin Verbrugge			
Attorney Docket Number	RAMB-01049US2			

-	U.S. PATENTS AND PUBLISHED U.S. PATENT APPLICATIONS							
Examiner Initials	Cite No.	Document Number  Number-Kind Code (if known)	Issue or Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear			
W		5,283,877	02-01-1994	Gastinel et al.				
1		6,276,844	08-21-2001	Coteus et al.				
		6,369,605	04-09-2002	Bonella et al.				
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		6,854,042	02-08-2005	Karabatsos				
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		7,007,130	02-28-2006	Holman				
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	-	2003-0018880	01-23-2003	Litaize et al.				
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W		2004-0267481	12-30-2004	Resnick				

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4 of

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Examiner Name	Kevin Verbrugge					
Attomey Docket Number	RAMB-01049US2					

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jW		JEDEC Standard - "FBDIMM Specification: High Speed Differential PTP Link at 1.5V," JESDS-18, September 2006, available at "http://www.jedec.org/download/search/JESD8-18.pdf"	
		Excel Spreadsheet, entitled "Patents.xls," available at "http://www.jedec.org/download/search/FBDIMM/patents.xls"	
		"Patentica" letter, dated December 18, 2004, 4 pages, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Kentron" letter, dated January 23, 2006, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Wintec" letter, dated March 19, 2003, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Wintec" letter, dated April 2, 2003, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"AMD" letter, dated April 12, 2004, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Micron" letter, dated December 2, 2003, 3 pages, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Micron" letter, dated September 16, 2005, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Inphi" letter, dated March 3, 2005, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
		"Inphi" letter, dated June 6, 2005, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	
jW		"Samsung" letter, dated October 25, 2004, 1 page, referenced in Excel Spreadsheet, entitled "Patents.xls."	

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10/766131

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Signature

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Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Application Number

4.07565 1.24

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/766,131

Filing Date January 28, 2004

First Named Inventor Richard E. Perego

Art Unit Unknown

Examiner Name Linknown

(Use as many sheets as necessary)
Sheet 1 of

Examiner Name Unknown
Attorney Docket Number RAMB-01049US2

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			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (I known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
100		<sup>US-</sup> 5,953,215*	09-14-1999	Karabatsos	
<u>'</u>		<sup>US-</sup> 6,142,830*	11-07-2000	Looeffler	
		<sup>US-</sup> 6,185,644 B1*	02-06-2001	Farmwald et al.	
		<sup>US-</sup> 6,266,252 B1*	07-24-2001	Karabatsos	
		<sup>US-</sup> 6,317,352 B1*	11-13-2001	Halbert et al.	
		<sup>US-</sup> 6,414,904 B2*	07-02-2002	So et al.	
		<sup>US-</sup> 6,446,158 B1*	09-03-2002	Karabatsos	
		<sup>US-</sup> 6,493,250 B2*	12-10-2002	Halbert et al.	· · · · · · · · · · · · · · · · · · ·
		<sup>US-</sup> 6,530,006 B1*	03-04-2003	Dodd et al.	
		<sup>US-</sup> 6,643,752 B1*	11-04-2003	Donnelly et al.	
		<sup>US-</sup> 6,449,679 B2*	09-10-2002	Ryan	
		<sup>US-</sup> 6,108,731*	08-22-2000	Suzuki et al.	
		<sup>US-</sup> 5,701,313*	12-23-1997	Purdham	
		<sup>US-</sup> 5,068,650*	11-26-1991	Fernandez et al.	
		us-4,947,257*	08-07-1990	Fernandez et al.	
		US-5,513,135*	04-30-1996	Dell et al.	
		<sup>US-</sup> 6,065,092*	05-16-2000	Roy	
W		<sup>US-</sup> 6,185,644*	02-06-2001	Farmwald et al.	

<u> </u>	_	FOREIGN F	PATENT DOCU	JMENTS		
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,	Π
Initials*	No.'	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T°
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08a (08-03)

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	itute for form 1449A/PTO	to respond to a collection of information unless it contains a valid OMB control number.  Complete if Known		
		Application Number	10/766,131	
IN	FORMATION DISCLOSURE	Filing Date	January 28, 2004	
ST	ATEMENT BY APPLICANT	First Named Inventor	Richard E. Perego	
		Art Unit	Unknown	
	(Use as many sheets as necessary)	Examiner Name	Unknown	
Sheet 2	of 4	Attorney Docket Number	RAMB-01049US2	

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number-Kind Code <sup>2 (# knowl)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
W	Ĺ	<sup>US-</sup> 5,034,917*	07-23-1991	Bland et al.	
' <i>W</i>		<sup>US-</sup> 4,977,498*	12-11-1990	Rastegar et al.	
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	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines,				
	No.'	Country Code <sup>3</sup> Number <sup>4</sup> 'Kind Code <sup>5</sup> ( <i>if known</i> )	MM-DD-YYYY Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Τ°				
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Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for for	m 1449B/PTO			Complete if Known				
				Application Number	10/766,131			
INFORM	MATION DI	SCLC	SURE	Filing Date	January 28, 2004			
STATE	MENT BY A	<b>\PPL</b>	<b>ICANT</b>	First Named Inventor	Richard E. Perego			
				Art Unit	Unknown			
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Sheet 3		of	4	Attorney Docket Number	RAMB-01049US2			

	<del>,</del>	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
W		*Intel Developer Forum, "DDR2 Memory In 2004 Servers - Recipes For Successful Designs", September 2003	
		*QBM Alliance, Platform Conference, *Quad Band Memory (QBM tm): DDR 200/266/333 devices producing DDR400/533/667, Jan. 23-24, 2002	
	·········	*KARABATSOS, C., *Quad Band Memory (QBM) Technology*, Kentron Technologies, Inc., April 2001	
	************	*Quad Band Memory (QBM), "The 'QBM Enabled' VIA PT880/PM880 Chipset Solutions with the Fastest Memory",	
		*WEBER, F., "The AMD Athlon Processor: Future Directions", AMD	
		*"Intel 82804AA Memory Repeater Hub for SDRAM (MRH-S) Datasheet", Intel Corp., pp. 2-48 (Nov. 1999)	
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		*CATALDO, A., "TI Fields DSP-Based Media Processor on a DIMM", EE Times (Jan. 2000)	
		*MAC WILLIAMS, P., "PC Memory Directions For 1999 and Beyond", Intel Developer Forum, pp. 1-10 (Sep. 1998)	
W		*JOHNSON, B., "Direct RDRAM Basic Architecture and Program Overview", Intel Developer Forum, pp. 1-14 (Sep. 1998)	

Examiner Signature	feor /	Vorl	-90x	Date Considered	10/23 -	11/7	7/0	<i>'</i> 6

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or intrication is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next community into the applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation Is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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	Substitute	for form 1449B/PTO				Complete if Known	
				,	Application Number	10/766,131	
	INFO	PRMATION	DISCLO	DSURE	Filing Date	January 28, 2004	
	STA	TEMENT B	<b>SY APPL</b>	ICANT	First Named Inventor	Perego	
					Art Unit	2188	
		(Use as many she	ets as necessar	y)	Examiner Name		
乀	Sheet	4	of	4	Attorney Docket Number	RAMB-01049US2	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
W		*JONES, F (United Memories, Inc.), *A new era of fast dynamic RAMs*, IEEE Spectrum, October 1992, pp. 43-49	
	***********	*FARMWALD, M. et al. (Rambus Inc.), "A fast path to one memory", IEEE Spectrum, October 1992, pp. 50-51	
		"GJESSING, S. (University of Oslo), GUSTAVSON, D.B (Stanford Linear Accelerator Center), JAMES, D. et al. (Apple Computer Inc.), WIGGER, H. (Hewlett-Packard Co.), "A RAM link for high speed", IEEE Spectrum, October 1992, pp. 52-53	
W		"The Institute of Electrical and Electronics Engineering , Inc., "IEEE Standard for High-Bandwidth Memory Interface Based on Scalable Coherent Interface (SCI) Signaling Technology (RamLink)", 1996, pp. 1-91	
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<sup>&</sup>quot;EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication (papplicant.)

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Complete if Known **Application Number** 10/766,131 Filing Date Jan. 28, 2004 First Named Inventor Perego Art Unit Unknown **Examiner Name** Unknown Attorney Docket Number RAMB-01049US2

			U. S. PATEN	F DOCUMENTS	
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W	<del></del>	US- 6,587,912 B2*	07-01-2003	Leddige et al.	<del> </del>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known **Application Number** 10/766,131 Filing Date January 28, 2004 First Named Inventor Perego Art Unit Unknown **Examiner Name** Unknown Attorney Docket Number RAMB-01049US2

(Use as many sheets as necessary)

			U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (# known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RV		<sup>US-</sup> 6690726*	02-10-2004	Yavits et al.	
1		<sup>US-</sup> 5325493*	06-28-1994	Herrell et al.	
		<sup>US-</sup> 5867180*	02-02-1999	Katayama et al.	
		<sup>US-</sup> 6104417*	08-15-2000	Nielsen et al.	
W		<sup>US-</sup> 6208273*	03-27-2001	Dye et al.	
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		FOREIGN PATENT DOCUMENTS	
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Initials*	No.	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (If known)  MM-DD-YYYY Applicant of Cited Document Or Relevant Passages or Relevant Figures Appear	To
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	STATEMENT BY APPLICANT				First Named Inventor	Richard E. Perego	
					Art Unit	2188	
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_	Sheet	1	of	1	Attorney Docket Number	RAMB-01049US2	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
W	*****	*JEDDELOH, JOE, "Fully Buffered DIMM (FB-DIMM)", Advanced Systems Technology, Micron Technology, Inc. April 15-16, 2004	
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/766,131

Filing Date January 28, 2004

First Named Inventor Perego

Art Unit 2188

Examiner Name

Attorney Docket Number RAMB-01049US2

(Use as many sheets as necessary)

Sheet 1 of 1

Substitute for form 1449A/PTO

**U. S. PATENT DOCUMENTS Publication Date** Name of Patentee or Pages, Columns, Lines, Where Examiner Cite No.1 **Document Number** MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Initials Figures Appear Number-Kind Code<sup>2 (8 known)</sup> <sup>US-</sup>5883839\* 03-16-1999 Tosaka et al. US-US-US-US-US-IIS-US-US-US-US-US-US-US-US-ÜS-US US-

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Namber <sup>4</sup> Kind Code <sup>6</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>®</sup>			
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### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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l	Complete If Known					
Application Number	10/766,131					
Filing Date	January 28, 2004					
First Named Inventor	Perego					
Art Unit	2188					
Examiner Name						
Attorney Docket Number	RAMB-01049US2					

		NON PATENT LITERATURE DOCUMENTS					
Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
W		*IEEE Standard for Scalable Coherent Interface (SCI), "Microprocessor and Microcomputer Standards Subcommittee of the IEEE Computer Society", IEEE Std 1596-1992					
	***************************************	*SCI, "P1596: SCI, A Scalable Coherent Interface", November 28, 1988					
	····	*GUSTAVSON et al., DRAFT *The Scalable Coherent Interface Project (SuperBus)*, SCI, August 22, 1988, Rev. 14					
		*SCHANKE, "Proposal for Clock Distribution in SCI", SCI, May 5, 1989					
		*JAMES, "Scalable I/O Architecture for Buses", COMPCON Spring 1989, SCI, November 28, 1988					
	**************	*VOLZ et al., *Position Paper On Global Clock For the Futurebus +*, SCI, 1989					
IW		*KRISTIANSEN et al., "Scalable Coherent Interface", to appear in Eurobus Conference Proceedings, May 1989					
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/766,131

Filing Date January 28, 2004

First Named Inventor Perego

Art Unit 2188

Examiner Name

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Sheet 1 of 2

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Attorney Docket Number RAMB-01049US2

Examiner	Cito	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	Cite No.1	Pocinies annuel	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant
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	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	76	
W		EP 0 811 916 A2*	12/10/1997	The Boeing Company	Of Research squies / Open		
		WO 99/30240*	06-17-1999	Intel Corporation			
1		WO 99/41666*	08-19-1999	Intel Corporation			
<u> </u>		WO 99/41667*	08-19-1999	Intel Corporation			
W		EP 1069509 A2*	01-17-2001	Texas Instruments Incorporated			

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Examiner Signature	Heor Wir	ler	Date Considered	10/23-11/7/06

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Complete if Known Substitute for form 1449B/PTO Application Number 10/766,131 Filing Date INFORMATION DISCLOSURE January 28, 2004 First Named Inventor STATEMENT BY APPLICANT Perego Art Unit 2188 (Use as many sheets as necessary) Examiner Name Attorney Docket Number Sheet RAMB-01049US2 2

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
W		*PCT International Search Report (June 27, 2001) 4 pages	
W	, <del></del>	*Microsoft Press Computer Dictionary, 3rd Ed., 1997, pp. 48 and 68	
W		*GUSTAVSON et al., "Macintosh HD:Desktop Folder:SLDRAMrepeaterConcerns", Sunday, November 23, 1997, 4 pages	
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Application Number 10/766,131

Filing Date January 28, 2004

First Named Inventor Perego

Art Unit 2188

Examiner Name

RAMB-01049US2

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KV		<sup>US-</sup> 5742840*	04-21-1998	Hansen et al.	
		<sup>US-</sup> 5748872*	05-05-1998	Norman	
		<sup>US-</sup> 5860080*	01-12-1999	James et al.	
7		<sup>US-</sup> 5867422*	02-02-1999	John	
7		<sup>US-</sup> 5898863*	04-27-1999	Ofer et al.	
T		<sup>US-</sup> 6006318*	12-21-1999	Hansen et al.	·
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7		us-6038682*	03-14-2000	Norman	
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		us-6151648*	11-21-2000	Haq	
		<sup>US-</sup> 6154826*	11-28-2000	Wulf et al.	
		<sup>US-</sup> 6160423*	12-12-2000	Haq	
		us-6255859*	07-03-2001	Haq	
		US-6263413*	07-17-2001	Motomura et al.	
		us-6327205*	12-04-2001	Haq	
		US-6408402*	06-18-2002	Norman	
100	$\neg \neg$	<sup>US-</sup> 6487102*	11-26-2002	Halbert et al.	

	FOREIGN PATENT DOCUMENTS							
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KV		<sup>US-</sup> 6502161*	12-31-2002	Perego et al.	
1		<sup>US-</sup> 6513080*	01-28-2003	Haq	
		US-6154855*	11-28-2000	Norman	
		<sup>US-</sup> 6345321*	02-05-2002	Litaize et al.	
7		US-6369605*	04-09-2002	Bonella et al.	
		<sup>US-</sup> 6449213*	09-10-2002	Dodd et a.	
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	Substitute f	for form 1449B/PTO			Complete if Known			
					Application Number	10/766,131		
	INFO	RMATION D	ISCLC	SURE	Filing Date	January 28, 2004		
	STAT	<b>TEMENT BY</b>	APPL	ICANT	First Named Inventor	Perego		
					Art Unit	2188		
		(Use as many sheets a	s necessar)	)	Examiner Name	•		
こ	Sheet	3	of .	4	Attorney Docket Number	RAMB-01049US2		

	NON PATENT LITERATURE DOCUMENTS									
Examiner Initials*	Cite No. 1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publi and/or country where published.		T²							
W		*U.S. Patent Application Serial No. 10/713,868, filed 11-14-2003 by Pete D. Vogt								
		*U.S. Patent Application Serial No. 10/714,025, filed 11-14-2003 by Pete D. Vogt								
	<del></del>	*U.S. Patent Application Serial No. 10/714,026, filed 11-14-2003 by Pete D. Vogt	•••••							
		*U.S. Patent Application Serial No. 10/883,474, filed 06-30-2004 by Pete D. Vogt								
		*U.S. Patent Application Serial No. 10/882,999, filed 06-30-2004 by Pete D. Vogt								
		*U.S. Patent Application Serial No. 10/859,438, filed 05-31-2004 by Pete D. Vogt	· ************************************							
		*U.S. Patent Application Serial No. 10/858,850, filed 05-31-2004 by Pete D. Vogt								
		*U.S. Patent Application Serial No. 10/859,060, filed 05-31-2004 by Pete D. Vogt								
		*NG, R. (Sun Microsystems Inc.), "Fast computer memories", IEEE Spectum, October 1992, pp. 36-39								
W		*SALTERS, R.H.W. (Phillips Research Laboratories), "Fast DRAMS for sharper TV", IEEE Spectrum, October 1992, pp. 40-42								

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Examiner Signature	Nevin!	Verl	-CPL	Date Considered	10/	23 - 11/	7/00	6

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. Applicant is unique cration designation number (optional). Applicant is brace a creek mark filter it enjusts larguage translation is actuated.

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	Outsuitate for form 144			Application Number	10/766,131	
	INFORMAT	TION DISCLO	SURE	Filing Date	January 28, 2004	
		NT BY APPL		First Named Inventor	Perego	
				Art Unit	2188	
	(Use as n	nany sheets as necessary	n	Examiner Name		
_	Sheet 4	of	4	Attorney Docket Number	RAMB-01049US2	

NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
W		*JONES, F (United Memories, Inc.), "A new era of fast dynamic RAMs", IEEE Spectrum, October 1992, pp. 43-49						
//	,	*FARMWALD, M. et al. (Rambus Inc.), *A fast path to one memory*, IEEE Spectrum, October 1992, pp. 50-51						
	• ••••••	*GJESSING, S. (University of Oslo), GUSTAVSON, D.B (Stanford Linear Accelerator Center), JAMES, D. et al. (Apple Computer Inc.), WIGGER, H. (Hewlett-Packard Co.), *A RAM link for high speed*, IEEE Spectrum, October 1992, pp. 52-53	·					
1CN		"The Institute of Electrical and Electronics Engineering , Inc., "IEEE Standard for High-Bandwidth Memory Interface Based on Scalable Coherent Interface (SCI) Signaling Technology (RamLink)", 1996, pp. 1-91						
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Examiner Signature		Date Considered 10/23 - 11/7/06

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not criation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet 1

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary

Complete if Known						
Application Number	10/766,131					
Filing Date	January 28, 2004					
First Named Inventor	Perego					
Art Unit	2188					
Examiner Name						
Attorney Docket Number	RAMB-01049US2					

F	Cite.	Danimant Niverber	U. S. PATENT Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Examiner Initials*	Cite No.1	Document Number	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant
/	'''	Number-Kind Code <sup>2 (I known)</sup>			Figures Appear
W		US-6425064 B2*	07-23-2002	Soderquist	
<del>-+-</del> 1		US-4621339*	11-04-1986	Wagner et al.	
		US-4747070*	05-24-1988	Trottier et al.	•
		US-4858107*	08-15-1989	Fedele	
		US-5602780*	02-11-1997	Diem et al.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
		us-5642444*	06-24-1997	Mostafavi	
		us-5838985*	11-17-1998	Ohki	
		us-6708248*	03-16-2004	Garrett, Jr., et al.	
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		US-6639820 B1	10-28-2003	Khandekar et al.	
		<sup>US-</sup> 6820163 B1	11-16-2004	McCall et al.	
		<sup>US-</sup> 6553450 B1	04-22-2003	Dodd et al.	
W		<sup>US-</sup> 6510503	01-21-2003	Gillingham et al.	
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	FOREIGN PATENT DOCUMENTS											
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W		EP 0 282 070 B1*	08-03-1994	Fujitsu Limited								
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	Substitute	for form 1449B/PTO			Complete if Known		
					Application Number	10/766,131	
	INFO	RMATION DI	SCLO	DSURE	Filing Date	January 28, 2004	
	STA	TEMENT BY A	APPL	ICANT.	First Named Inventor	Perego	
					Art Unit	2188	
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C	Sheet	2	of	2	Attorney Docket Number	RAMB-01049US2	

NON PATENT LITERATURE DOCUMENTS								
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
W		JEDEC Standard No. 21-C, Pages 4.20.4-1 through 4.20.4-69, 4.20.4- 184 PIN, PC1600/2100 DDR SDRAM REGISTERED DIMM DESIGN SPECIFICATIONM, Revision 1.2						
W		MICRON, 240-Pin 256MB, 512MB, 1GB DDR2 SDRAM FBDIMM (SR, FB x72) Features, Micron Technology, Inc., 2004, pp. 1-36						
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Substitute for form 1449B/PTO Complete if Known **Application Number** 10/766,131 INFORMATION DISCLOSURE Filing Date January 28, 2004 STATEMENT BY APPLICANT First Named Inventor Perego Art Unit 2188 (Use as many sheets as necessary) Examiner Name Sheet Attorney Docket Number RAMB-01049US2

NON PATENT LITERATURE DOCUMENTS								
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W		MICRON, 256MB, 512MB, 1GB: (x72, ECC, DR) 168-Pin SDRAM RDIMM, Synchronous DRAM Module, Micron Technology, Inc.; 2001, pp. 1-28						
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known							
Application Number	10/766,131						
Filing Date	January 28, 2004						
First Named Inventor	Perego						
Art Unit	2188						
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Examiner Initials* /	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
W		US-5926839*	07/20/1999	Katayama	
11		US-6272609 B1*	08/07/2001	Jeddeloh	
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W		US-6477592 B1*	11/05/2002	Chen et al.	
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Substitute for form 1449B/PTO Complete if Known Application Number 10/766,131 INFORMATION DISCLOSURE Filing Date January 28, 2004 First Named Inventor STATEMENT BY APPLICANT Perego Art Unit 2188 (Use as many sheets as necessary) Examiner Name

Chart	1.				<del>                               </del>		
Sheet	1		of	1	Attorney Docket Number	RAMB-01049US2	_
				NON PATEN	T LITERATURE DOCUMENTS		
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W	LIZY KURIAN JOHN, "VaWiRAM: A Variable Width Random Access Memory Module", 9th International Conference on VLSI Design, January 1996, pp. 219-224, 1995 IEEE						
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### ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

OCT 1 0 2006

Title of Invention

#### E WIDTH BUFFERED MODULE CONFIGURAB

**Application Number:** 

10/766131

\*10/766131\*

Confirmation Number:

3149

First Named Applicant:

Richard Perego

Attorney Docket Number: RAMB-01049US2

Art Unit:

2188

Search string:

(5513377 or 6526469 or 6185654 or 6530033 or 5228132 ).pn.

#### **US Patent Documents**

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
PU	1	5513377 *	1996-04-30	Capowski et al.	]		
	2	6526469 *	2003-02-25	Drehmel et al.	]		
	3	6185654 *	2001-02-06	Van Doren	j		
	4	6530033 *	2003-03-04	Raynham et al.			
W	5	5228132 *	1993-07-13	Neal et al.	]		

### Signature

Examiner Name	Date ,
Nevi Verligge	10/23-11/7/06

### **ELECTRONIC INFORMATION DISCLOSURE STATEMENT**

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

CONFIGURABLE WIDTH BUFFERED MODULE

Application Number:

10/766131

\*10/766131\*

Confirmation Number:

3149

First Named Applicant:

Richard Perego

Attorney Docket Number: RAMB-01049US2

Art Unit:

2188

Search string:

( 6330687 or 5371880 or 5475818 or 5400360 or 4631666 or 5655113 or 5511224 or 5574945 or 5917760 or 6016282 or 6449727 or 4644532 or 4667305 or 4747100 or 4864563 or 5228134 or 5355467 or 5408646 or 5537394 or 5544342 or 5553266 or 5557266 or 5604735 or 5630095 or 5659710 or 5787083 or 5802054 or 5802565 or 5805798 or 5848145 or 5884036 or 5893921 or 5900017 or 5901294 or 5911052 or 5913044 or 5923893 or 6247100 or 20040095838 or 20040260991 or 20040250181 or 20040250153 or

20040150024 or 20040246786 or 20040246785 or 20040246767 or 20040015650 or 20030177313 or

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Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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#### Remarks

Note: Remarks are not for responding to an office action.

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Substitute for form 1449B/PTO	Complete if Known			
	Application Number	10/766,131		
INFORMATION DISCLOSURE	Filing Date	January 28, 2004		
STATEMENT BY APPLICANT	First Named Inventor	Richard E. Perego		
	Art Unit	Unknown		
(Use as many sheets as necessary)	Examiner Name	Unknown		
Sheet of A	Attorney Docket Number	RAMB-01049US2		

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (bo magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/cr country where published.				
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